**Activity report for the period January-May 2006**

**I. Actions for Warsaw University of Technology:**

- Arrangements for XX-th Polish Festival of Science (14-26.IX.2006). This year we plan to show few lectures linked with workshops for children in different age:
  - “The eye – human optics”;
  - “Holography – 3D photography”;
  - “The magic of colors – visible spectrum of light”;
  - “Wave optics – interference and diffraction”;
  - “In the maze of geometrical optics”.

- On 26 of April and 17th May we had visit of students from one of Warsaw’s High Schools interested in field of optics. Aneta Michalkiewicz gave them lecture about holography and later on we have shown them our laboratories and workshop about the principles of holography:

- Preparations for Fair of Scientific Chapters and Students’ Organizations of WUT at which we are going to show different aspects of holography and interferometry. We prepared leaflets and other promotional materials for this event.

- Improvements on our website ([http://spie.mchtr.pw.edu.pl](http://spie.mchtr.pw.edu.pl))

**II. Education and projects:**

- Arrangements for SPIE Student Members trip to SPIE Annual Meeting and Optics & Photonics Conference in San Diego, USA;

- 6 persons took a part in Photonics Europe 2006, which was held in Strasbourg in April 2006. We presented several papers:
  - **Miniaturized low-cost digital holographic interferometer**, A. Michalkiewicz, M. Kujawinska, P. Marc, L. R. Jaroszewicz
  - **Application of photoelastic tomography to measurement of refractive indices in optical anisotropic microelements**, P. Kniazewski, T. Kozacki, M. Kujawinska
  - **Design, modeling, and prototyping of microinterferometric...**
tomography system for optical fiber inspection, R. Krajewski, B. Volekaerts, Y. Meuret, M. Kujawinska, H. Thienpoint
Experimental proof-of-principle 3D measurements of microobjects by digital holographic tomography, A. Jozwicka, M. Kujawinska
LCOS as a reference element in Twyman–Green laser interferometer, J. M. Kacperski, M. Kujawinska, M. Jozwik
4D measurement system for automatic location of anatomical structures, M. Witkowski, R. Sitnik, M. Kujawinska, W. Rapp, M. Kowalski, B. Haex, S. Mooshake

We also took a part in Innovation Village and our product “Virtual Studio for educational content production” won a 1st Prize in category: Best Marketability

![Marcin with our stand](image)

SPIE President Paul McManamon (left) presents the SPIE Europe Best Marketability Award to Marcin Witkowski and Aneta Michalkiewicz, with the help of head judge Henri Rajbenbach (right).

- Preparations and verifications of our members presentations which will be given on XVIIth Conference on Photonics and Web Engineering held in Wilga, Poland;
- Since February monthly chapter meetings have been arranged, and all the actual problems have been discussed. Also the lectures on certain topics have been given:
  - “Holography – 3D photography” by Aneta Michalkiewicz;
  - “Lasers” by Mariusz Klimczak;
  - “Wilga’s presentations” by Bartosz Zieliński, Bartosz Bilski, Pawel Błaszczyk, Jan Okraj, Krzysztof Radzimowski.

III. Creation of links between SPIE Chapters

1. SPIE Student Chapters

On 23-25th of April a few our chapter members were in Wroclaw and discussed with SPIE Student Chapter from there the possibility of tightening our relations

We are cooperating with all Student Chapters from Poland. Especially we have excellent relations with members of Wroclaw University of Technology SPIE Students Chapter. Besides – we have also very good contact with Student Chapters from Kent State University, Chernivtsi National University and Tec de Monterrey, Mexico.

2. SPIE Poland Chapter
We cooperate with SPIE Poland Chapter. Aneta Michalkiewicz is Student Chapters Coordinator in Poland and chief editor of SPIE-PL bulletin.

IV. Future plans

- We are going to participate in following conferences:
  o XVIIth Conference on Photonics and Web Engineering held in Wilga, 29.05-03.06.06, Poland;
  o SPIE Annual Meeting and Optics & Photonics Conference in San Diego, USA;
  o SPIE Student Chapter Meeting, 04-07.09.06, Saint Petersburg
  o X Scientific Conference and School: Optical Fibers and their applications, 04-07.10.06, Krasnobrod, Poland

- Our members are going to attend summer schools:
  o Summer School "Highlights in Microtechnology (HIM), 4-17. 07.06 Neuchatel
  o Santiago de Compostela – NEMO Summer School on Optical Modeling

- We intend to participate in:
  o Festival Of Science in September 2006
  o Fair of Scientific Chapters and Organization at WUT